SHARP

MICRO COMPONENT SYSTEM

MODEL

XL-HP600E

OPERATION MANUAL

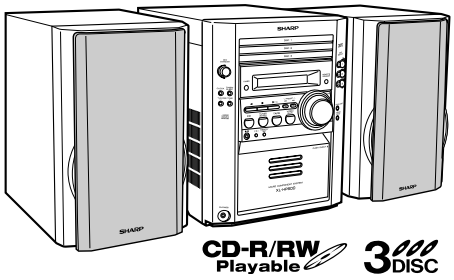
**If you require any advice or assistance regarding your Sharp product, please visit our web-site www.sharp.co.uk/customersupport.
Customers without Internet access may telephone 08705 274277 during office hours (or (01) 676 0648 if telephoning from Ireland).**

COMPACT disc DIGITAL AUDIO

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.6W

**Thank you for purchasing this SHARP product.
To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.**

XL-HP600E Micro Component System consisting of XL-HP600E (main unit) and CP-HP600E (speaker system).



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Special notes

NOTES FOR USERS IN THE U.K. AND IRELAND

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 3A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ♡ or ◈ and of the same rating as above, which is also indicated on the pin face of the plug must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut-off the mains plug and fit an appropriate type.

DANGER:
The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet as a serious electric shock may occur.
To fit an appropriate plug to the mains lead, follow the instructions below:

IMPORTANT:
The wires in the mains lead are coloured in accordance with the following code:
Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three pin plug.

Before replacing the plug cover, make sure that:

- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The cord grip is clamped over the sheath of the mains lead and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

SERVICE INFORMATION
In the unlikely event of your equipment requiring repair, please contact the dealer or supplier from whom it was purchased. Where this is not possible, please visit our web-site www.sharp.co.uk/customersupport.
Customers without internet access may telephone 08705 274277 during office hours (or (01) 676 0648 if telephoning from Ireland).
Please note; all calls will be charged at local rate.

Certain replacement parts and accessories may be obtained from our main parts distributor.

WILLOW VALE ELECTRONICS LTD.
0121 766 5414

In the unlikely event of this equipment requiring repair during the guarantee period, you will need to provide proof of the date of purchase to the repairing company.
Please keep your invoice or receipt, which is supplied at the time of purchase.

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WARNINGS

- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit. When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.
- This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the apparatus.

NOTES

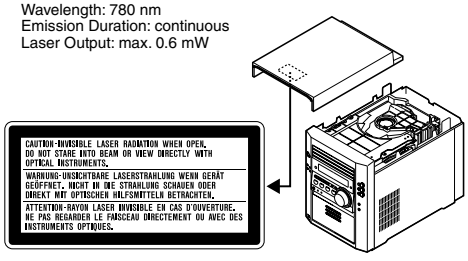
- Recording and playback of any material may require consent, which SHARP is unable to give. Please refer particularly to the provisions of the Copyright Act 1956, the Dramatic and Musical Performers Protection Act 1958, the Performers Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders.
- This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

CAUTION

- This product is classified as a CLASS 1 LASER product.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW


CAUTION-INVISIBLE LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH
OPTICAL INSTRUMENTS.
WARNUNG-UNSICHTBARE LASERSTRAHLUNG WENN GERÄT
GEÖFFNET. NICHT IN DIE STRAHLUNG SCHAUEN ODER
DIREKT MIT OPTISCHEN HILFSMITTELN BETRACHTEN.
ATTENTION-RAYON LASER INVISIBLE EN CAS D'OUVERTURE.
NE PAS REGARDER LE FAISCEAU DIRECTEMENT OU AVEC DES
INSTRUMENTS OPTIQUES.

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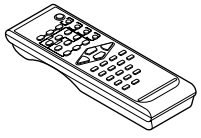
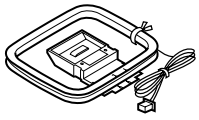
Accessories

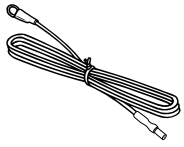
Please confirm that the following accessories are included.



Remote control × 1



AM loop aerial × 1



FM aerial × 1

Speaker wire × 2

Note:
Only the above accessories are included.

Contents

Page

■ General Information
Precautions 5
Controls and indicators . . . . . 6 - 8

■ Preparation for Use
Remote control 9
System connections 10, 11

■ Basic Operation
Sound control 12
Setting the clock 13

■ CD Playback
Listening to a CD (CDs) 14, 15
Advanced CD playback 16, 17

■ Radio
Listening to the radio 18, 19

■ Tape Playback
Listening to a cassette tape 20, 21

■ Tape Recording
Recording to a cassette tape . . . . . 21 - 23

■ Advanced Features
Timer and sleep operation . . . . . 24 - 26
Enhancing your system 26, 27

■ References
Troubleshooting chart 28, 29
Maintenance 30
Specifications 30, 31

TERMS OF GUARANTEE . . . . . Back cover

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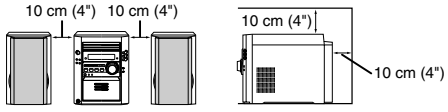
Precautions

■ General

- Please ensure that the equipment is positioned in a well ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back of the equipment.



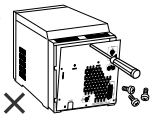
- Use the unit on a firm, level surface free from vibration.

- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.

- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power lead from the wall socket. Plug the AC power lead back in, and then turn on your system.
- In case of an electrical storm, unplug the unit for safety.

- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.

- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**



- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.

- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- The apparatus is designed for use in moderate climate.
- This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).

Warning:
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

■ Volume control

The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels. Do not turn the volume on to full at switch on and listen to music at moderate levels.

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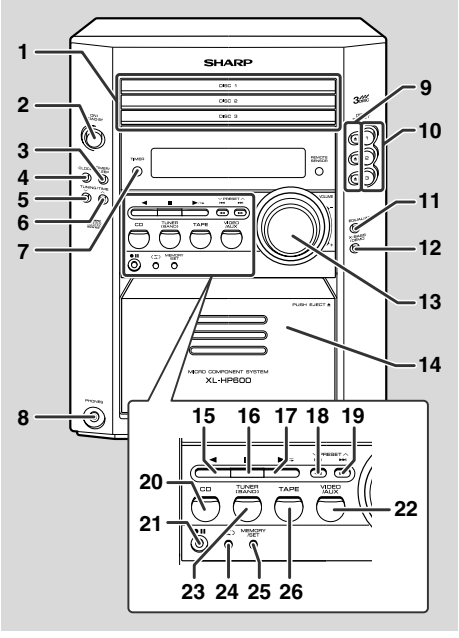
Controls and indicators



■ Front panel

Reference page

1. Disc Trays 14
2. On/Stand-by Button 11
3. Timer/Sleep Button 24, 26
4. Clock Button 13, 24
5. Tuning and Time Down Button 13, 18
6. Tuning and Time Up Button 13, 18
7. Timer Set Indicator 25
8. Headphone Socket 27
9. CD Eject Buttons 14
10. CD Direct Play Buttons 15
11. Equaliser Mode Select Button 12
12. Extra Bass/Demo Mode Button 11, 12
13. Volume Control 12
14. Cassette Compartment 20
15. Tape Reverse Play Button 20
16. CD or Tape Stop Button 14, 21
17. CD Play or Repeat, Tape Forward Play Button . . . 14, 16, 20
18. CD Track Down or Fast Reverse, Tape Fast Wind, Tuner Preset Down Button 15, 19, 21
19. CD Track Up or Fast Forward, Tape Fast Wind, Tuner Preset Up Button 15, 19, 21
20. CD Button 14
21. Tape Record Pause Button 22, 23
22. Video/Auxiliary Button 26
23. Tuner (Band) Button 18
24. Tape Reverse Mode Select Button 20
25. Memory/Set Button 13, 17, 19
26. Tape Button 20

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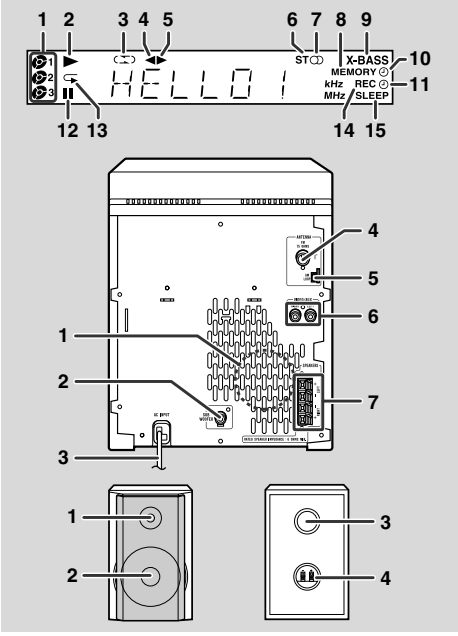

■ Display

1. Disc Number Indicators
2. CD Play Indicator
3. Tape Reverse Mode Indicator
4. Tape Reverse Play Indicator
5. Tape Forward Play Indicator
6. FM Stereo Mode Indicator
7. FM Stereo Receiving Indicator
8. Memory Indicator
9. Extra Bass Indicator
10. Timer Recording Indicator
11. Timer Play Indicator
12. CD Pause Indicator
13. CD Repeat Play Indicator
14. Tape Record Indicator
15. Sleep Indicator

■ Rear panel

	Reference page
1. Cooling Fan	
2. Subwoofer Output Socket	27
3. AC Power Lead	10, 11
4. FM 75 Ohms Aerial Socket	10
5. AM Loop Aerial Socket	10
6. Video/Auxiliary (Audio Signal) Input Sockets	26
7. Speaker Terminals	10, 11

Note:
This product is equipped with a cooling fan inside, which begins to run at a specified volume level for better heat radiation.

■ Speaker system

1. Tweeter
2. Woofer
3. Bass Reflex Duct
4. Speaker Terminals

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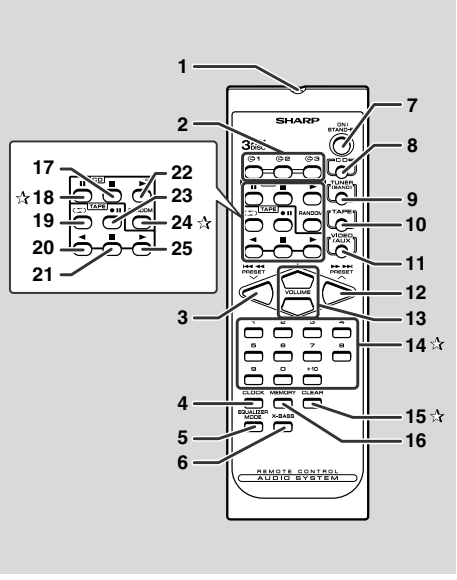
Controls and indicators (continued)



Buttons with "☆" mark in the illustration or highlighted in bold on the right can be operated on the remote control only.

■ Remote control

Reference page

1. Remote Control Transmitter 9
2. CD Direct Play Buttons 15
3. CD Track Down or Fast Reverse, Tape Fast Wind, Tuner Preset Down Button 15, 19, 21
4. Clock Button 13
5. Equaliser Mode Select Button 12
6. Extra Bass Button 12
7. On/Stand-by Button 9
8. CD Button 14
9. Tuner (Band) Button 18
10. Tape Button 20
11. Video/Auxiliary Button 26
12. CD Track Up or Fast Forward, Tape Fast Wind, Tuner Preset Up Button 15, 19, 21
13. Volume Up and Down Buttons 12
14. Direct Search Buttons 16
15. Programme Clear Button 17
16. CD Memory Button 17
17. CD Stop Button 14
18. CD Pause Button 14
19. Tape Reverse Mode Select Button 20
20. Tape Reverse Play Button 20
21. Tape Stop Button 21
22. CD Play or Repeat Button 14, 16
23. Tape Record Pause Button 22, 23
24. CD Random Button 16
25. Tape Forward Play Button 20

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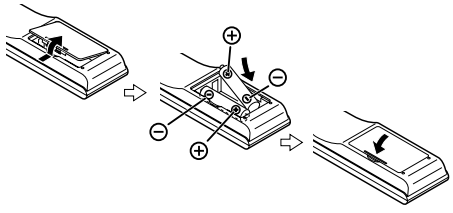
Remote control

■ Battery installation

Use 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar).
Batteries are not included.

1 Remove the battery cover.
2 Insert the batteries according to the direction indicated in the battery compartment.
When inserting or removing the batteries, push them towards the ⊖ battery terminals.
3 Replace the cover.



Precautions for battery use:
- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit is not to be used for long periods of time. This will prevent potential damage due to battery leakage.

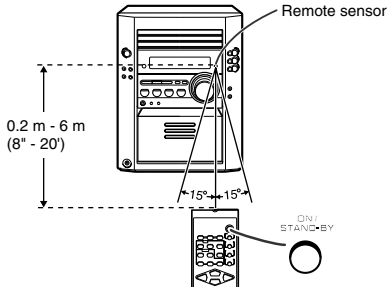
Caution:
- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Installing the batteries incorrectly may cause the unit to malfunction.

Notes concerning use:
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, heat, shock, and vibrations.

■ Test of the remote control

Check the remote control after checking all the connections (see pages 10 - 11).
Point the remote control directly at the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy music.



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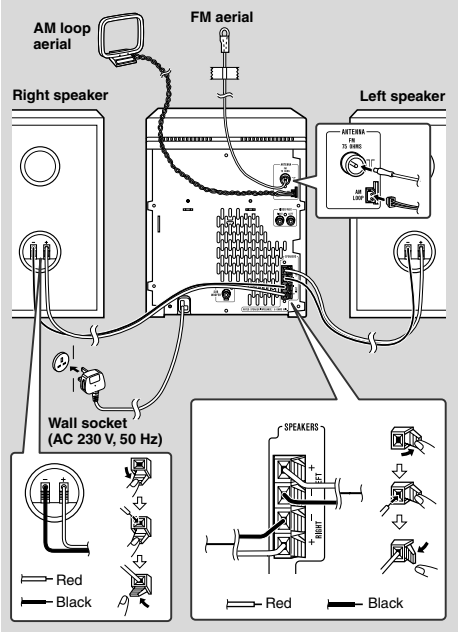
System connections



■ Aerial connection

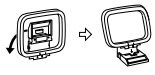
Supplied FM aerial:
Connect the FM aerial wire to the FM 75 OHMS socket and position the FM aerial wire in the direction where the strongest signal can be received.

Supplied AM loop aerial:
Connect the AM loop aerial to the AM LOOP socket. Position the AM loop aerial for optimum reception. Place the AM loop aerial on a shelf, etc., or attach it to a stand or a wall with screws (not supplied).

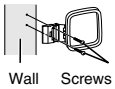
Note:
Placing the aerial on the stereo system or near the AC power lead may cause noise pickup. Place the aerial away from the stereo system for better reception.

Installing the AM loop aerial:

< Assembling >

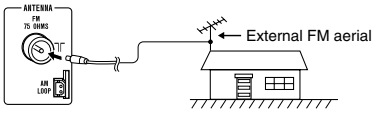


< Attaching to the wall >



Wall Screws (not supplied)

External FM aerial:
Use an external FM aerial if you require better reception. Consult your dealer.



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■ Speaker connection

Connect the black wire to the minus (-) terminal, and the red wire to the plus (+) terminal.

Caution:

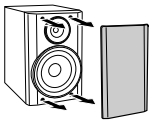
- **Connect the speaker wires to the speakers first, then to the unit.**
- Use speakers with an impedance of 6 ohms or more, as lower impedance speakers can damage the unit.
- Do not mistake the right and the left channels. The right speaker is the one on the right side when you face the unit.
- **Do not let the bare speaker wires touch each other.**
- Do not allow any objects to fall into or to be placed in the bass reflex ducts.
- Do not stand or sit on the speakers. You may be injured.

Incorrect

Incorrect

Speaker grilles are removable:

Make sure nothing comes into contact with the speaker diaphragms when you remove the speaker grilles.



■ Connecting the AC power lead

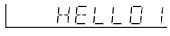
After checking all the connections have been made correctly, plug the AC power lead of this unit into the wall socket. If you plug in the unit first, the unit will enter the demonstration mode.

Notes:

- The unit will start the tape initialisation when plugged in to the AC socket. During this process, initialising sound will be heard and the unit cannot be turned on. Wait until the process is finished.
- Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.

■ Demonstration mode

The first time the unit is plugged in, the unit will enter the demonstration mode. You will see words scroll.



To cancel the demonstration mode:

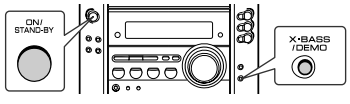
When the unit is in the power stand-by mode (demonstration mode), press the X-BASS/DEMO button. The unit will enter the low power consumption mode.

To return to the demonstration mode:

When the unit is in the power stand-by mode, press the X-BASS/DEMO button again.

Note:

When the power is on, the X-BASS/DEMO button can be used to select the extra bass mode.



■ To turn the power on

Press the ON/STAND-BY button to turn the power on.

After use:

Press the ON/STAND-BY button to enter the power stand-by mode.

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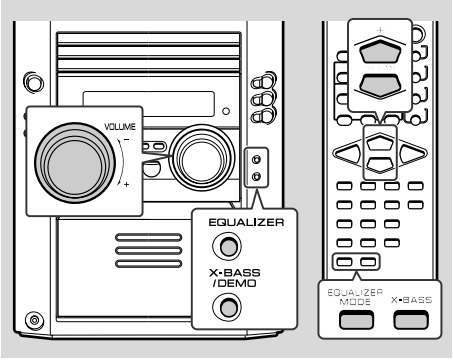
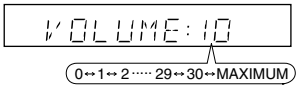
Sound control



■ Volume control

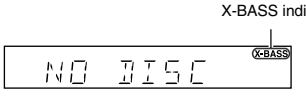
Main unit operation:
When the VOLUME control is turned clockwise, the volume will increase. When it is turned anti-clockwise, the volume will decrease.

Remote control operation:
Press the VOLUME (+ or -) button to increase or decrease the volume.



■ Bass control

When the power is first turned on, the unit will enter the extra bass mode which emphasises the bass frequencies, and "X-BASS" will appear. To cancel the extra bass mode, press the X-BASS/DEMO (X-BASS) button.



■ Equaliser

When the EQUALIZER (EQUALIZER MODE) button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQUALIZER (EQUALIZER MODE) button repeatedly until the desired sound mode appears.

FLAT	The sound is not modified.
ROCK	Bass and treble are emphasised.
CLASSIC	Treble is cut a little.
POPS	Bass and treble are slightly emphasised.
VOCAL	Vocals (midrange tones) are emphasised.
JAZZ	Treble is slightly emphasised.

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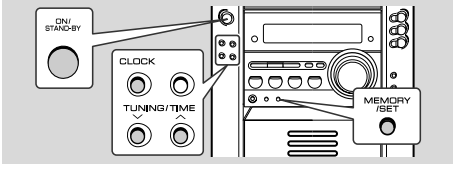
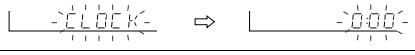
Setting the clock



The clock should be set on the main unit.
In this example, the clock is set for the 24-hour (0:00) display.

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CLOCK button on the main unit and, within 5 seconds, press the MEMORY/SET button.



3 Press the TUNING/TIME (∨ or ∧) button to select 24-hour or 12-hour display and then press the MEMORY/SET button.

"0:00" → The 24-hour display will appear. (0:00 - 23:59)
"AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)
"AM 0:00" → The 12-hour display will appear. (AM 0:00 - PM 11:59)

Note that this can only be set when the unit is first installed or it has been reset. [Refer to "Clearing all the memory (reset)" on page 29 for details.]

4 Press the TUNING/TIME (∨ or ∧) button to adjust the hour and then press the MEMORY/SET button.

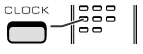
- Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

5 Press the TUNING/TIME (∨ or ∧) button to adjust the minutes and then press the MEMORY/SET button.

- Press the TUNING/TIME (∨ or ∧) button once to advance the time by 1 minute. Hold it down to change the time in 5-minute intervals.
- The hour will not advance even if minutes advance from "59" to "00".

To confirm the time display:

Press the CLOCK button on the main unit or remote control.
The time display will appear for about 5 seconds.



Note:
The "CLOCK" or time will flash at the push of the CLOCK button when the AC power supply is restored after a power failure or unplugging the unit.
Readjust the clock as follows.

To readjust the clock:
Perform "Setting the clock" from step 1. If the "CLOCK" is not flashing in step 2, step 3 (for selecting the 24-hour or 12-hour display) will be skipped.

To change the 24-hour or 12-hour display:
1 Clear all the programmed contents. [Refer to "Clearing all the memory (reset)" on page 29 for details.]
2 Perform "Setting the clock" from step 1.

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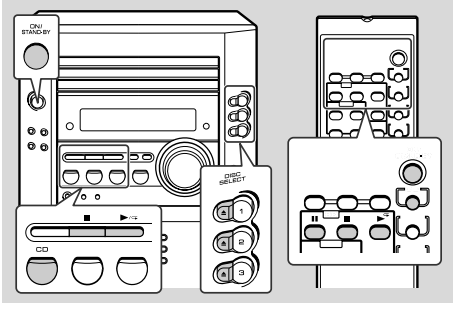
Listening to a CD (CDs)

This system can also play audio CD-R and CD-RW discs, but cannot record.
Some audio CD-R and CD-RW discs may not be playable due to the state of disc or the device that was used for recording.



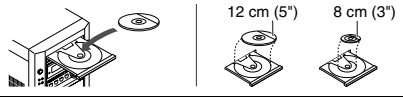
1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the CD button.**

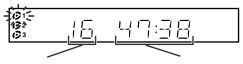
3 **Press the ⏏ button to open the disc tray 1.**

4 **Place the CD on the disc tray 1, label side up.**

Be sure to place an 8 cm (3") CD in the middle of the disc tray.



5 **Press the ⏏ button to close the disc tray 1.**



Total number of tracks on the CD whose number is flashing

Total playing time of the CD whose number is flashing

6 **You can place discs on trays 2 - 3 by following steps 3 - 5.**

7 **Press the ► / ⇨ button to start playback.**

- Playback will begin from track 1 on DISC 1. After that disc finishes playing, the next disc will automatically play.
- When the last track on the third disc has finished playing, the CD player will automatically stop.
- When there is no CD in one of the disc trays (1 - 3), the empty tray will be skipped to the next tray with a CD.

To interrupt playback:
Press the CD ⏸ button on the remote control.
To resume playback from the same point, press the ► ⇨ button.

To stop playback:
Press the ■ (CD ■) button.

To change other CDs whilst playing a disc:
Press the ⏏ button for the disc trays not in use.

To remove the CDs:
Whilst in the stop mode, press the desired ⏏ button.

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■ To locate the beginning of a track

To move to the beginning of the next track:
Press the ▶▶I button for less than 0.5 seconds during playback.
To restart the track being played:
Press the I◀◀ button for less than 0.5 seconds during playback.

Notes:
- You can locate the beginning of a track on a single disc only.
- You can skip to any track by pressing the I◀◀ or ▶▶I button repeatedly until the desired track number appears.

■ To locate the desired portion

For audible fast forward:
Press and hold down the ▶▶ button during playback.
For audible fast reverse:
Press and hold down the ◀◀ button during playback.

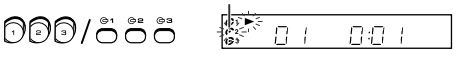
Notes:
- Normal playback will resume when the ◀◀ or ▶▶ button is released.
- You can locate the desired portion on a single disc only.
- When the end of the last track is reached during fast forward, "×× END" will appear on the display and CD operation will be paused. When the beginning of the first track is reached during fast reverse, the unit will enter the playback mode.
(××: Last track number)

■ To specify a disc to play

You can play a disc by specifying the disc number.

Press one of the DISC SELECT ① - ③ (⊜1 - ⊜3) buttons to select the desired disc.

Selected disc number



Only the chosen disc will be played and stopped automatically.

Note:
If the button of the disc tray with no disc is pressed, playback will not start and the disc number indicator will go out.

To stop playback:
Press the ■ (CD ■) button.

Caution:
- Do not place two CDs in one disc tray.
- Do not play discs with special shapes (heart- or octagon-shaped). It may cause malfunctions.
- Do not push the disc tray whilst it is moving.
- If the power fails whilst the tray is open, wait until the power is restored.
- If the disc tray is stopped with force, "ER-CD20" will appear on the display for 3 seconds and the unit will not function. If this occurs, press the ON/STAND-BY button to enter the power stand-by mode and then turn the power on again.
- If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.
- If a disc is damaged, dirty, or loaded upside down, the disc will skip or not play back.

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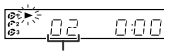
Advanced CD playback

■ Direct search of the track

By using the direct search buttons, the desired tracks on the current disc can be played.

Use the direct search buttons on the remote control to select the desired track whilst playing the selected disc.

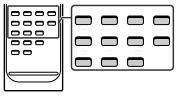


Selected track number

- The direct search buttons allow you to select up to number 9.
- When selecting number 10 or more, use the "+10" button.

A. For example, to choose 13

1 Press the "+10" button once.
2 Press the "3" button.



B. For example, to choose 30

1 Press the "+10" button three times.
2 Press the "0" button.

If the direct search buttons are pressed whilst the disc is stopped, press the ► / ⊂ button to start the desired track on the current disc.

Notes:

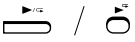
- A track number higher than the number of tracks on the disc cannot be selected.
- During random play, direct search is not possible.

■ Repeat play

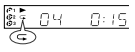
All tracks on up to 3 discs, all tracks on the chosen disc or a programmed sequence can be continuously repeated.

To repeat all tracks on up to 3 discs:

Press the ► / ⊂ button twice.



To repeat all tracks on the chosen disc:



1 Press one of the DISC SELECT ① - ③ (㊀ 1 - ㊂ 3) buttons.
2 Press the ► / ⊂ button.

To repeat desired tracks:

Perform steps 1 - 6 in the "Programmed play" section and then press the ► / ⊂ button twice.

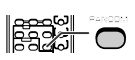
To cancel repeat play: Press the ► / ⊂ button again. "⊂" will go out.

■ Random play

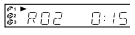
The tracks on the disc(s) can be played in random order automatically.

To random play all tracks on up to 3 discs:

1 Press the ► / ⊂ button.
2 Press the RANDOM button on the remote control.



To random play all tracks on the chosen disc:



1 Press one of the DISC SELECT ① - ③ (㊀ 1 - ㊂ 3) buttons.
2 Press the RANDOM button on the remote control.

To cancel random play: Press the ► / ⊂ button.

Notes:

- If you press the ►►I button during random play, you can move to the track selected next by the random operation. On the other hand, the I◄◄ button does not allow you to move to the previous track. The beginning of the track being played will be located.
- In random play, the CD player will select and play tracks automatically. (You cannot select the order of the tracks.)

Caution:

After performing repeat or random play, be sure to press the ■ (CD ■) button. Otherwise, the disc(s) will play continuously.

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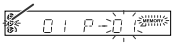
■ Programmed play

You can choose up to 32 selections for playback in the order you like.

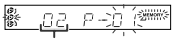
1 **Whilst in the stop mode, press the MEMORY/SET (MEMORY) button to enter the programming save mode.**

2 **Press one of the DISC SELECT ① - ③ (ⓒ 1 - ⓒ 3) buttons to select the desired disc.**

Selected disc number



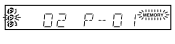
3 **Press the direct search buttons on the remote control to select the desired track.**



Selected track number

You can also select a track by pressing the ⏮ or ⏭ button.

4 **Press the MEMORY/SET (MEMORY) button to save the track number.**



5 **Repeat steps 2 - 4 for other tracks. Up to 32 tracks can be programmed.**

If you make a mistake, the programmed tracks can be cleared by pressing the CLEAR button.

6 **Press the ■ (CD ■) button.**

The total number of memory will appear.

7 **Press the ► / ⊂ button to start playback.**

During programme play, the DISC SELECT ① - ③ (ⓒ 1 - ⓒ 3) buttons will not work.

To clear the programmed selections:
Press the CLEAR button on the remote control whilst the "MEMORY" indicator is flashing. Each time the button is pressed, one track will be cleared, beginning with the last track programmed.

To cancel the programmed play mode:
Whilst in the stop mode and the "MEMORY" indicator is lit, press the CLEAR button on the remote control. The "MEMORY" indicator will disappear and all the programmed contents will be cleared.

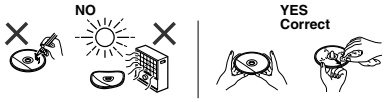
Adding tracks to the programme:
If a programme has been previously stored, the "MEMORY" indicator will be displayed. Then follow steps 1 - 6 to add tracks. The new tracks will be stored after the last track of the original programme.

To check which tracks are programmed:
Whilst the unit is stopped in the programmed play mode, press the ⏮ or ⏭ button.

Notes:
- Opening the disc tray automatically cancels the programmed sequence.
- Even if you press the ON/STAND-BY button to enter the stand-by mode or change the function from CD to another, the programmed selections will not be cleared.
- During programme operation, random play is not possible.

■ Care of compact discs

Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your CD collection and player.
- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.



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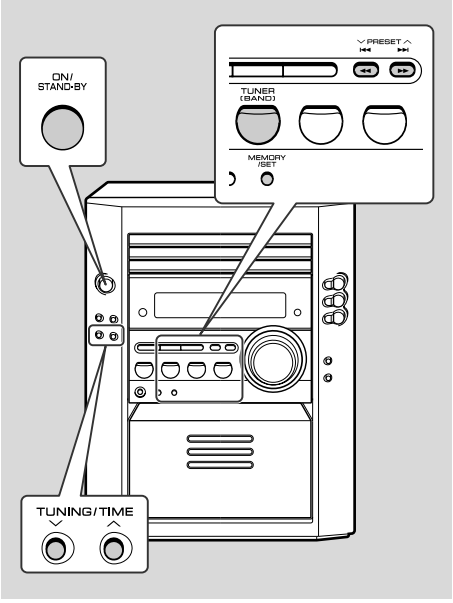
Listening to the radio



■ Tuning

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the TUNER (BAND) button repeatedly to select the desired frequency band (FM or AM).**

3 **Press the TUNING/TIME (∨ or ∧) button to tune in to the desired station.**

Manual tuning:

Press the TUNING/TIME button as many times as required to tune in to the desired station.

Auto tuning:

When the TUNING/TIME button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:

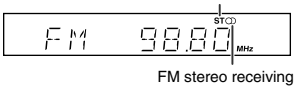
- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING/TIME button again.

To receive an FM stereo transmission:

Press the TUNER (BAND) button to display the "ST" indicator.

- "ⓒ" will appear when an FM broadcast is in stereo.

FM stereo mode indicator



FM stereo receiving indicator

- If the FM reception is weak, press the TUNER (BAND) button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

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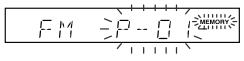
■ Memorising a station

You can store 40 AM and FM stations in memory and recall them at the push of a button. (Preset tuning)

1 **Perform steps 1 - 3 in "Tuning" on page 18.**

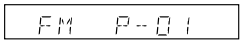
2 **Press the MEMORY/SET button to enter the preset tuning saving mode.**



3 **Within 30 seconds, press the PRESET (∨ or ∧) button to select the preset channel number.**

Store the stations in memory, in order, starting with preset channel 1.

4 **Within 30 seconds, press the MEMORY/SET button to store that station in memory.**



If the "MEMORY" and preset number indicators go out before the station is memorised, repeat the operation from step 2.

5 **Repeat steps 1 - 4 to set other stations, or to change a preset station.**

When a new station is stored in memory, the station previously memorised will be erased.

Note:
The backup function protects the memorised stations for a few hours should there be a power failure or if the AC lead is disconnected.

■ To recall a memorised station

Press the PRESET (∨ or ∧) button for less than 0.5 seconds to select the desired station.

■ To scan the preset stations

The stations saved in memory can be scanned automatically. (Preset memory scan)

1 Press the PRESET (∨ or ∧) button for more than 0.5 seconds. The preset number will flash and the programmed stations will be tuned in sequentially, for 5 seconds each.
2 Press the PRESET (∨ or ∧) button again when the desired station is located.

■ To erase entire preset memory

1 Press the ON/STAND-BY button to enter the stand-by mode.
2 Whilst pressing down the TUNER (BAND) button and the X-BASS/DEMO button, press the ON/STAND-BY button until "TUNER CL" appears.

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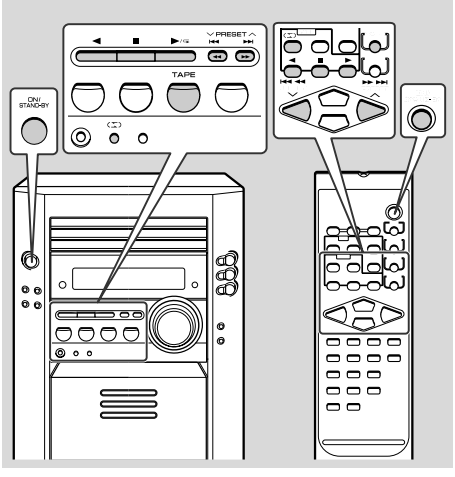
Listening to a cassette tape

Before playback:

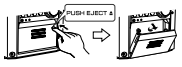
- **For playback, use normal or low-noise tapes for the best sound. (Metal or CrO_2 tapes are not recommended.)**
- Do not use C-120 tapes or poor-quality tapes, as they may cause malfunctions.
- Before loading a tape into the cassette compartment, tighten the slack with a pen or a pencil.



1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the TAPE button.**

3 **Open the cassette door by pushing the area marked "PUSH EJECT ⏏".**



4 **Load a cassette into the cassette compartment with side A facing you.**

5 **Press the ⇄ button to choose one side or both sides.**

⇉ ... To listen to both sides.

⇄ ... For endless repeat play of both sides.

⇒ ... To listen to one side.

6 **Press the ► / ⇄ (►) button to listen to side A, or the ◄ button for side B.**

To play both sides (⇉), start from side A. When playback starts from side B, side A will not be played.

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To stop playback:
Press the ■ (TAPE ■) button.

Fast forward/rewind on side A:
To advance the tape, press the ▶▶ button. To rewind it, press the ◀◀ button.

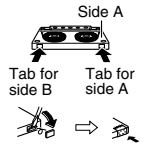
Fast forward/rewind on side B:
To advance the tape, press the ◀◀ button. To rewind it, press the ▶▶ button.

Caution:
- To remove the cassette, press the ■ (TAPE ■) button, and then open the compartment.
- Before changing from one tape operation to another, press the ■ (TAPE ■) button.
- If a power failure occurs during tape operation, the tape head will remain engaged with the tape and the cassette door will not open. In this case, wait until the power is restored.

Recording to a cassette tape

Before recording:
- When recording important selections, make a preliminary test to ensure that the desired material is properly recorded.
- SHARP is not liable for damage or loss of your recording arising from malfunction of this unit.
- The volume and sound controls can be adjusted with no effect on the recorded signal (Variable Sound Monitor).
- **For recording, use only normal tapes. Do not use metal or CrO_2 tapes.**

Erase-prevention tab of cassette tapes:
- When recording on a cassette tape, make sure that the erase-prevention tabs are not removed. Cassettes have removable tabs that prevent accidental recording or erasing.
- To protect the recorded sound, remove the tab after recording. Cover the tab hole with adhesive tape to record on the tape without the tab.



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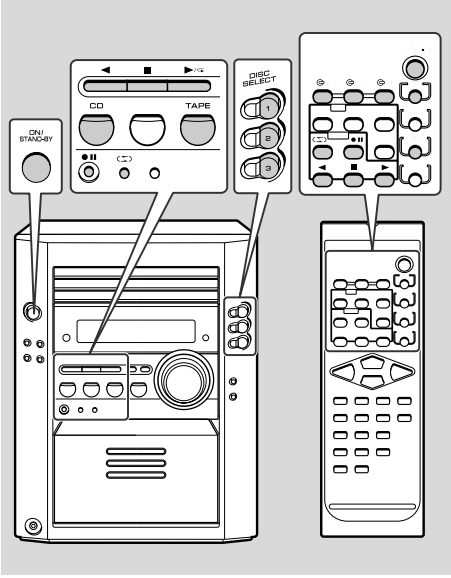
Recording to a cassette tape (continued)



■ Recording from a CD (CDs)

You can record the desired CD using the DISC SELECT ① - ③ (⊜ 1 - ⊜ 3) buttons.

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CD button and load the desired disc.

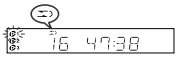
3 Load a cassette into the cassette compartment with side A facing you.

Wind past the leader of the tape, on which recording cannot be performed.

4 Press the ⊐ button to choose one side or both sides.

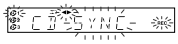
⊐ ... To record on both sides.

⊏ ... To record on only one side.



5 Press the ●II button.

Recording will be paused.



6 Press one of the DISC SELECT ① - ③ (⊜ 1 - ⊜ 3) buttons to start recording.

- To record on both sides, begin with side A. (If recording is started from side B, the tape will not switch over to side A.)
- Recording is started from the selected CD. When the playback of the last track is finished or the end of the tape is reached, the CD and the cassette will stop automatically.
- CD playback will start approximately 7 seconds after the tape starts.

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Recording from several CDs continuously:

1 Perform steps 1 - 5 in "Recording from a CD (CDs)" on page 22.
2 Press the ► / ⇨ (►) button to record on side A, or the ◄ button for side B.

To perform programmed recording:

1 Programme discs and tracks. (See page 17.)
2 Press the ●II button.
3 Press the ► / ⇨ (►) button to record on side A, or the ◄ button for side B.

To stop recording:
Press the ■ (TAPE ■) button.
The CD and tape will stop.

Auto restart function:
If the recording side is switched from side A to B during recording, the system will record the interrupted track on side B from its beginning. The recording will be made without cutting the beginning of the track on side B.

■ Recording from the radio

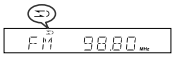
1 Tune in to the desired station. (See page 18.)

2 Load a cassette into the cassette compartment with side A facing you.

Wind past the leader of the tape, on which recording cannot be performed.

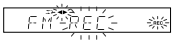
3 Press the ⇨ button to choose one side or both sides.

⇨ ... To record on both sides.
⇨ ... To record on only one side.



4 Press the ●II button.

Recording will be paused.



5 Press the ► / ⇨ (►) button to record on side A, or the ◄ button for side B.

To record on both sides, begin with side A. (If recording is started from side B, the tape will not switch over to side A.)

To interrupt recording:
Press the ●II button.
To resume recording, press the same recording button you pressed in step 5. Other buttons do not allow resuming.

To stop recording:
Press the ■ (TAPE ■) button.

Note:
If you hear a whistling noise whilst recording an AM station, move the AM loop aerial.

■ Erasing recorded tapes

1 Press the TAPE button.
2 Follow steps 2 - 5 in "Recording from the radio".

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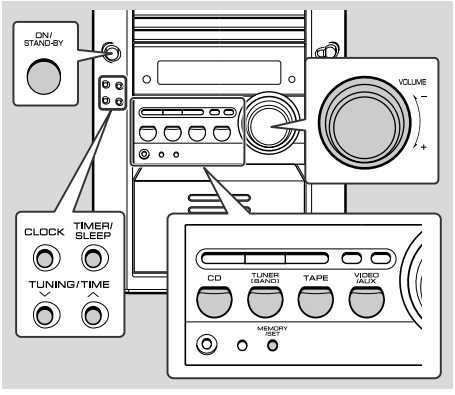
Timer and sleep operation

Timer playback:
The unit turns on and plays the desired source (CD, tuner, tape) at the preset time.

Timer recording:
The unit turns on and starts recording from the tuner at the preset time.

Sleep operation:
The radio, compact disc and cassette tape can all be turned off automatically.



■ Timer playback or timer recording

Before setting timer:

1	Press the CLOCK button to check that the clock is set to the correct time. (Refer to page 13.)	
2	For timer playback:	Load a cassette or discs to be played.
	For timer recording:	Load a cassette for recording in the cassette compartment.

⇩

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CD, TUNER (BAND) or TAPE button to select the desired function.

To select the timer playback source:
Press CD, TUNER (BAND) or TAPE.
To select the timer recording source:
Press TUNER (BAND).
When you select the TUNER (BAND), tune into the desired station.

3 Adjust the volume using the VOLUME control.

Do not turn the volume up too high.

4 Press the TIMER/SLEEP button repeatedly to select timer playback or timer recording.

Display the white "◴" for timer playback and the red "◴" for timer recording.

White Red

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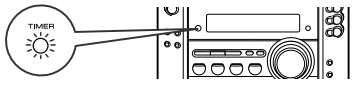
5 **Press the TUNING/TIME (∨ or ∧) button to specify the hour to start, then press the MEMORY/SET button.**

The illustrations show the timer playback setting.

6 **Press the TUNING/TIME (∨ or ∧) button to specify the minutes, then press the MEMORY/SET button.**

The unit will enter the timer stand-by mode automatically.



To cancel the timer playback/timer recording:

Press the ON/STAND-BY button to turn the power on.

7 **When the preset time is reached, playback or recording will start.**

The volume will increase gradually until it reaches the volume you were listening to before your system entered the timer stand-by mode.

In timer playback:

If you select CD or TAPE, the unit will enter the stand-by mode after the playback. If you select TUNER, it will enter the stand-by mode one hour after the timer playback starts.

In timer recording:

When the recording tape reaches its end, the timer recording will end, and the unit will enter the stand-by mode.

To reset or change the timer setting:

Perform "Timer playback or timer recording" from the beginning.

Note:

When performing timer playback or recording using another unit connected to the VIDEO/AUX sockets, select "VIDEO/AUX" in step 2. At this time, only this unit will be turned on or enter the power stand-by mode automatically. It will enter the power stand-by mode when the end of the recording tape is reached in timer recording or 1 hour after the playback starts in timer playback. However, the other unit will not be turned on or off.

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Timer and sleep operation (continued)

■ Sleep operation

1 **Play back the desired sound source.**

2 **Press the TIMER/SLEEP button repeatedly until "SLEEP" is displayed.**

To change the sleep time:

Whilst the sleep time is displayed, press the TUNING/TIME (∨ or ∧) button.

(Maximum: 3 hours - Minimum: 1 minute)

- 3 hours - 5 minutes → 5-minute intervals
- 5 minutes - 1 minute → 1-minute intervals

3 **Press the MEMORY/SET button.**

4 **Your system will enter the power stand-by mode automatically after the preset time has elapsed.**

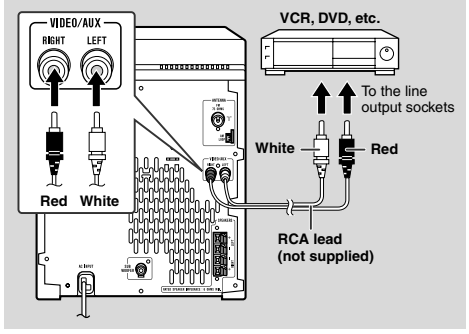
The volume will be turned down 1 minute before the sleep operation finishes.

To cancel the sleep operation:
Press the ON/STAND-BY button whilst the sleep timer is set.

To confirm the remaining sleep time:
Press the TIMER/SLEEP button whilst the sleep timer is set.
The remaining sleep time is displayed for about 5 seconds.

Enhancing your system

The connection lead is not included. Purchase a commercially available lead as shown below.



■ Listening to the playback sounds from VCR, DVD, etc.

1 **Use a connection lead to connect the VCR, DVD, etc. to the VIDEO/AUX sockets.**

When using video equipment, connect the audio output to this unit and the video output to a television.

2 **Press the ON/STAND-BY button to turn the power on.**

3 **Press the VIDEO/AUX button.**

4 **Play the connected equipment.**

Note:
To prevent noise interference, place the unit away from the television.

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■ To record on a tape

1 Insert a cassette in the cassette compartment.

2 Press the VIDEO/AUX button.

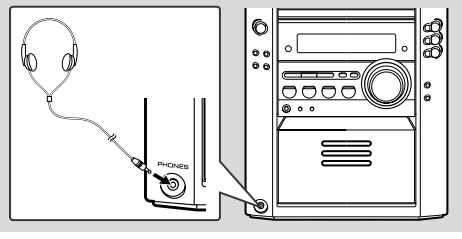
3 Press the ●II button.

4 Press the ► / ⊂ (►) or ◄ button.

5 Play the VCR, DVD, etc.

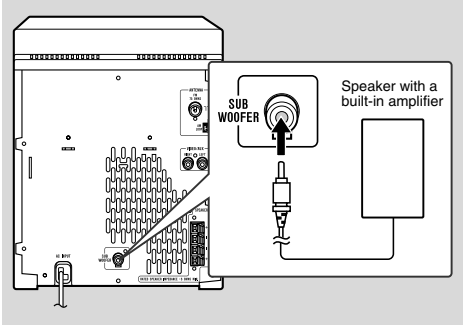
■ Headphones

- Before plugging in or unplugging the headphones, reduce the volume.
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and are between 16 ohms and 50 ohms impedance. The recommended impedance is 32 ohms.
- Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOLUME control.



■ Subwoofer connection

When a commercially available speaker with a built-in amplifier is connected to this unit, you can enjoy sound with emphasised bass. Connect an RCA lead from a commercially available speaker with a built-in amplifier to the SUBWOOFER socket.



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Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause
● The clock is not set to the correct time.	● Did a power failure occur? Reset the clock. (Refer to page 13.)
● When a button is pressed, the unit does not respond.	● Set the unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it. (Refer to page 29.)
● No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected? ● Are the speaker wires disconnected?

■ CD player

Symptom	Possible cause
● Playback does not start. ● Playback stops in the middle or is not performed properly.	● Is the disc loaded upside down? ● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

■ Tuner

Symptom	Possible cause
● Radio makes unusual noise consecutively.	● Is the unit placed near the TV or computer? ● Is the FM aerial or AM loop aerial placed properly? Move the aerial away from the AC power lead if it's located nearby.

■ Cassette deck

Symptom	Possible cause
● Cannot record.	● Is the erase-prevention tab removed?
● Cannot record tracks with proper sound quality. ● Cannot erase completely.	● Is it a normal tape? (You cannot record on a metal or CrO_2 tape.)
● Sound skipping. ● Cannot hear treble. ● Sound fluctuation.	● Is there slack in the tape? ● Is the tape stretched? ● Are the capstans, pinch rollers, or heads dirty?
● Cannot remove the tape.	● If a power failure occurs during playback, the heads remain engaged with the tape. Do not open the compartment with great force.

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■ Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power lead of the unit plugged in? ● Is the battery polarity respected? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

1 Set the unit to the stand-by mode and turn the power on again.
2 If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

Note:

If neither operation above restores the unit, clear all the memory by resetting it.

■ Clearing all the memory (reset)

1 Press the ON/STAND-BY button to enter the power stand-by mode.
2 Whilst pressing down the ► / ⊂ button and the X-BASS/DEMO button, press the ON/STAND-BY button until "CLEAR AL" appears.

Caution:

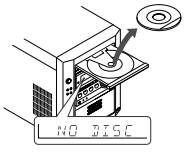
This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, tape heads, etc.) or on the transmitter on the remote control. Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc (or cassette) in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

■ Before transporting the unit

Remove all CDs from the unit. Your unit checks whether there are any discs inside the unit when the tray is closed. "NO DISC" appears if no disc is left. Then, set the unit to the power stand-by mode. Carrying the unit with discs left inside can damage the unit.



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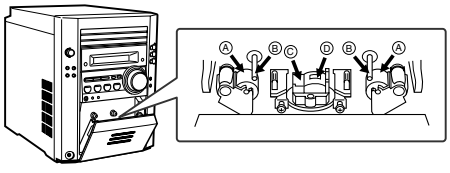
Maintenance

■ Cleaning the tape-handling parts

- Dirty heads, capstans or pinch rollers can cause poor sound and tape jams. Clean these parts with a cotton swab moistened with commercial head/pinch roller cleaner or isopropyl alcohol.
- When cleaning the heads, pinch rollers, etc., unplug the unit which contains high voltages.



Ⓐ Pinch roller
Ⓑ Capstan
Ⓒ Erase head
Ⓓ Recording/Playback head

- After long use, the deck's heads and capstans may become magnetised, causing poor sound. Demagnetise these parts once every 30 hours of playing/recording time by using a commercial tape head demagnetiser. Read the demagnetiser's instructions carefully before use.

■ Cleaning the CD pickup lens

Poor performance during CD playback (skipping or jumping) can be caused by a dirty or contaminated CD laser pick up lens. If this happens then the use of a commercially available CD lens cleaning discs may restore normal operation. Contact your supplier or local CD software dealer to obtain CD lens cleaning discs. Ensure all included instructions/documentation are carefully followed.

■ Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

Caution:

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■ General

Power source	AC 230 V, 50 Hz
Power consumption	Power on: 128 W Power stand-by: 0.6 W (*)
Dimensions	Width: 205 mm (8-1/8") Height: 260 mm (10-1/4") Depth: 366 mm (14-7/16")
Weight	7.2 kg (15.9 lbs.)

(*) This power consumption value is obtained when the demonstration mode is cancelled in the power stand-by mode. Refer to page 11 to cancel the demonstration mode.

■ Amplifier

Output power	RMS: 150 W (75 W + 75 W) (10 % T.H.D.) RMS: 126 W (63 W + 63 W) (0.9 % T.H.D.)
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) Subwoofer (audio signal): 200 mV/10 k ohms at 70 Hz
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 k ohms

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■ CD player

Type	3-disc multi-play compact disc changer player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

Frequency range	FM: 87.5 - 108 MHz AM: 522 - 1,620 kHz

■ Cassette deck

Frequency response	50 - 14,000 Hz (normal tape)
Signal/noise ratio	50 dB (recording/playback)
Wow and flutter	0.3 % (WRMS)

■ Speaker

Type	2-way type speaker system 5 cm (2") tweeter 13 cm (5-1/8") woofer
Maximum input power	150 W
Rated input power	75 W
Impedance	6 ohms
Dimensions	Width: 165 mm (6-1/2") Height: 260 mm (10-1/4") Depth: 281 mm (11-1/16")
Weight	2.9 kg (6.4 lbs.)/each

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TERMS OF GUARANTEE

Sharp Electronics (UK) Ltd. ("Sharp") guarantees to provide for the repair, or at its option the replacement, of this product subject to the conditions listed below:-

1. This guarantee shall only apply to faults which are due to inferior workmanship or materials. It does not cover faults or damage caused by accident, misuse, fair wear and tear, neglect, tampering with the product, or repair other than by a Service Facility appointed by Sharp.

2. As this product is intended for private domestic use only, the guarantee will not apply if the product is used in the course of a business, trade or profession.

3. To benefit from this guarantee, any fault which occurs must be notified to Sharp, or its appointed Service Facility within one year from the date this product was purchased. Proof of purchase must be provided.

4. The guarantee does not cover carriage costs, jewelled styli, audio tapes, compact discs or batteries.

5. In the unlikely event of this product requiring repair, please contact the supplier from whom it was purchased. Where this is not possible, please contact the Sharp Customer Information Centre on the telephone number given below.

6. No person has any authority to vary the terms or conditions of this guarantee.

7. This guarantee is offered as an additional benefit to your statutory rights, and does not affect these rights in any way.

If you have any difficulty operating this product, or would like information on other Sharp products, please telephone the Sharp Customer Information Centre on the number given below.

Sharp Customer Information Centre - Telephone 08705 274277
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